



Be Together 2012

THE BENTLEY USER CONFERENCE



Working *Smarter*, Together

SELECTseries 3 Technology Preview: Transitioning to V8i SELECTseries3 Workflows

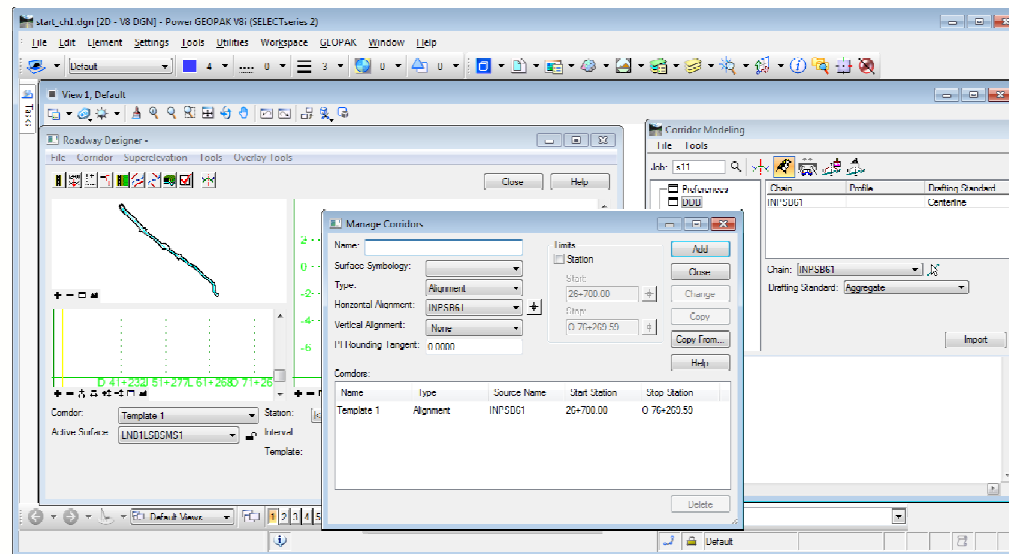
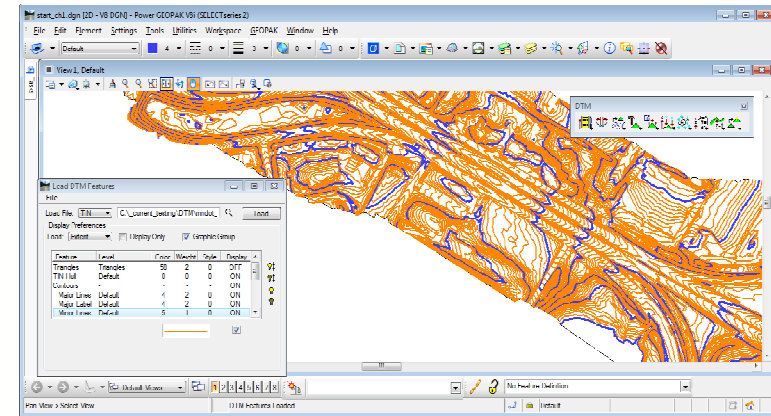
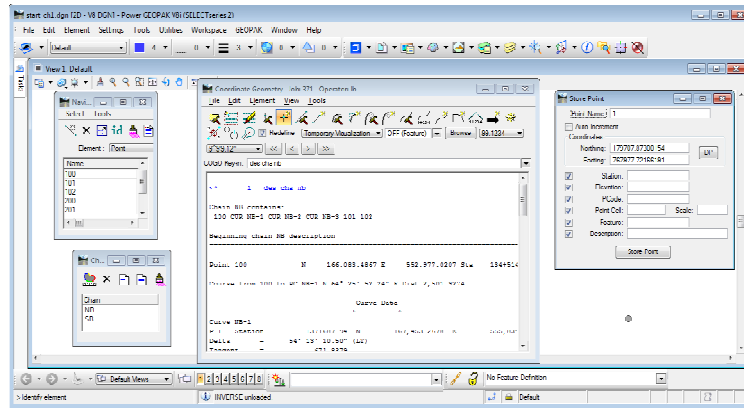
Lou Barrett, Product Manager (BSW – Road and Site Design)



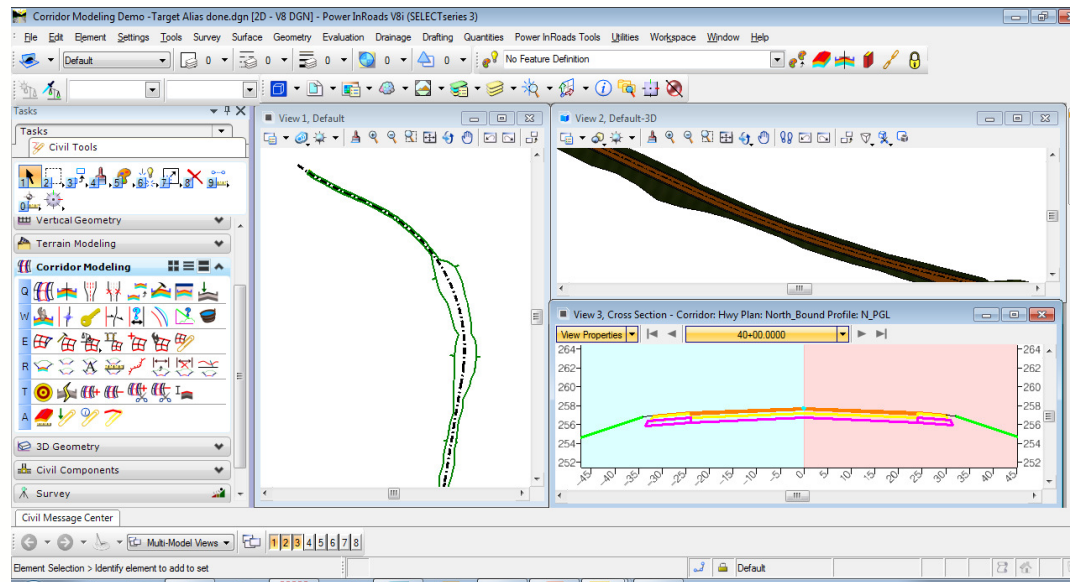
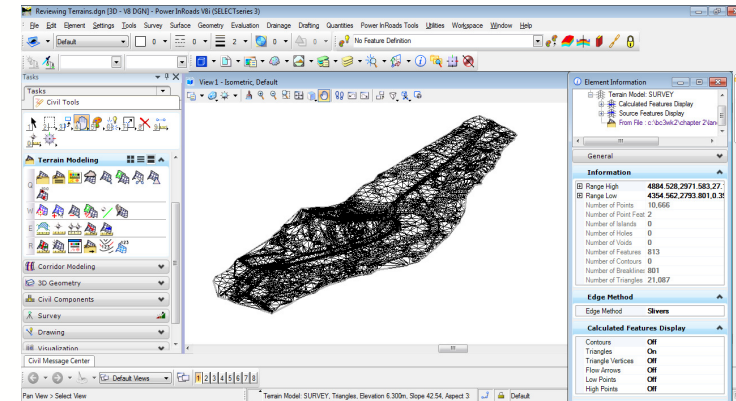
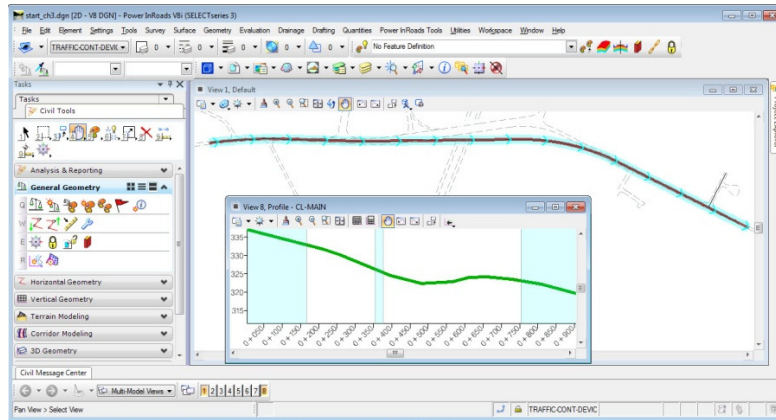
Goals of Presentation

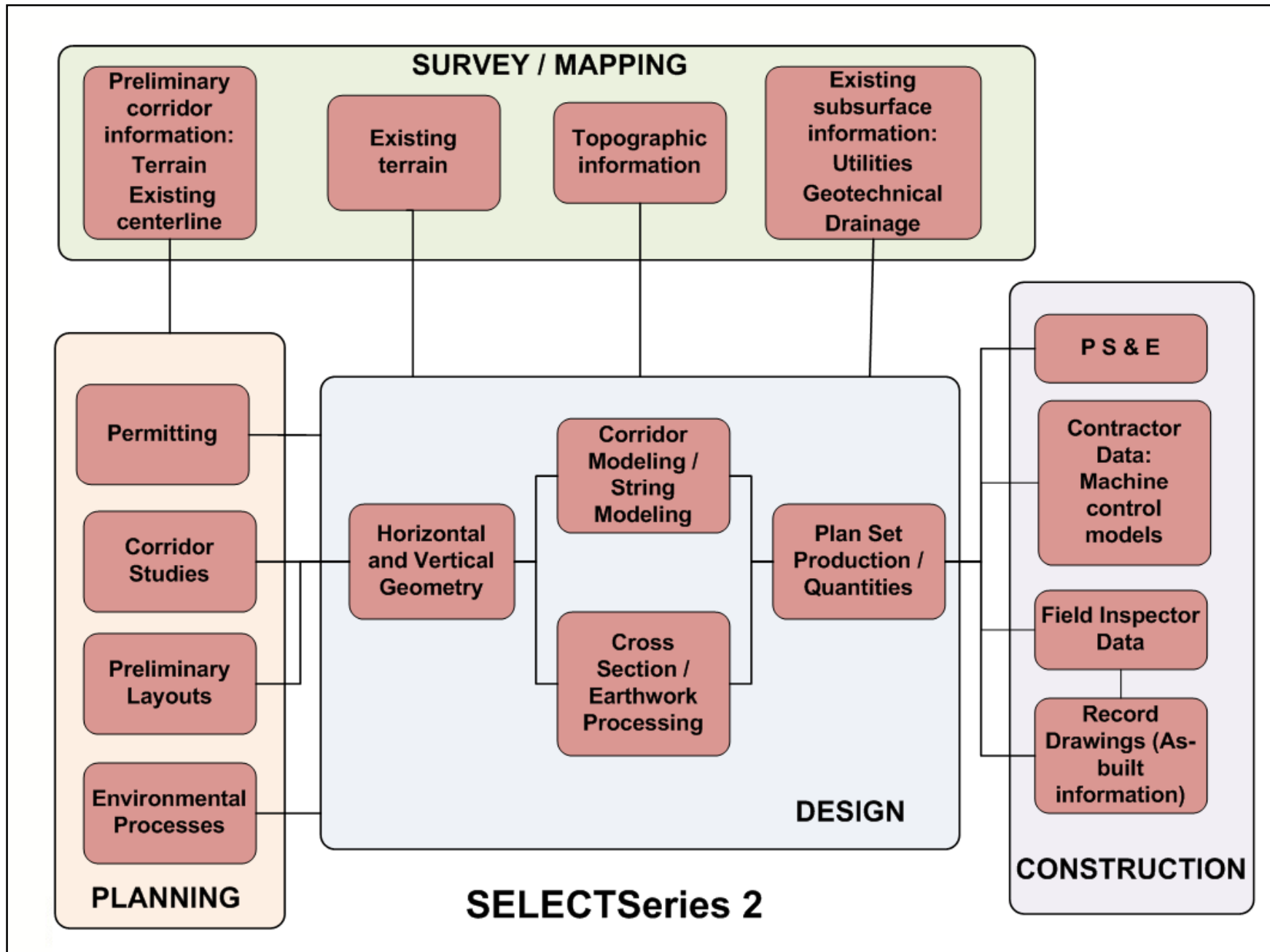
- High level view of SELECTseries 3
- What needs to be done to deploy?
- What are options to deployment?

SELECTseries 2



SELECTseries 3

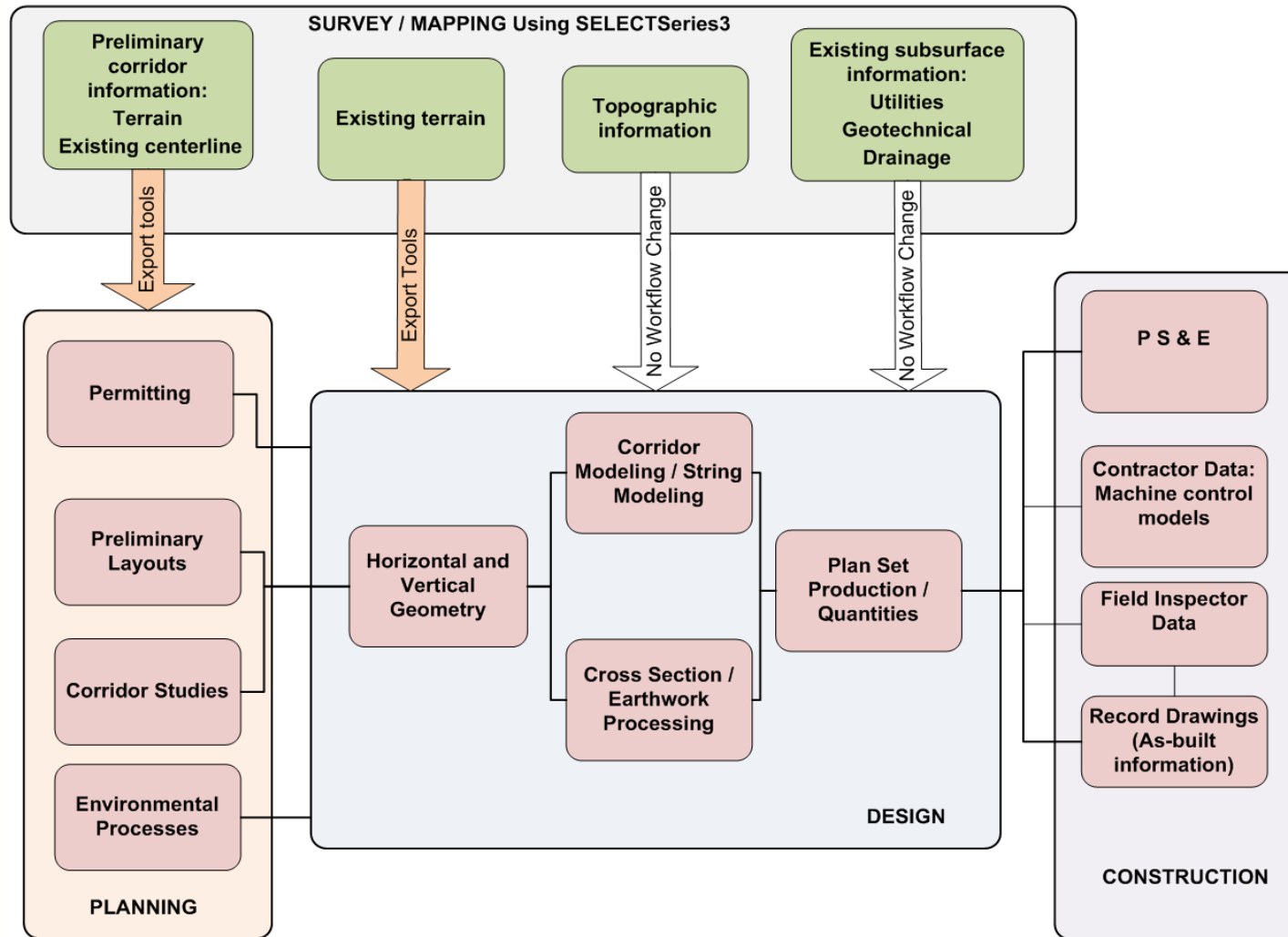




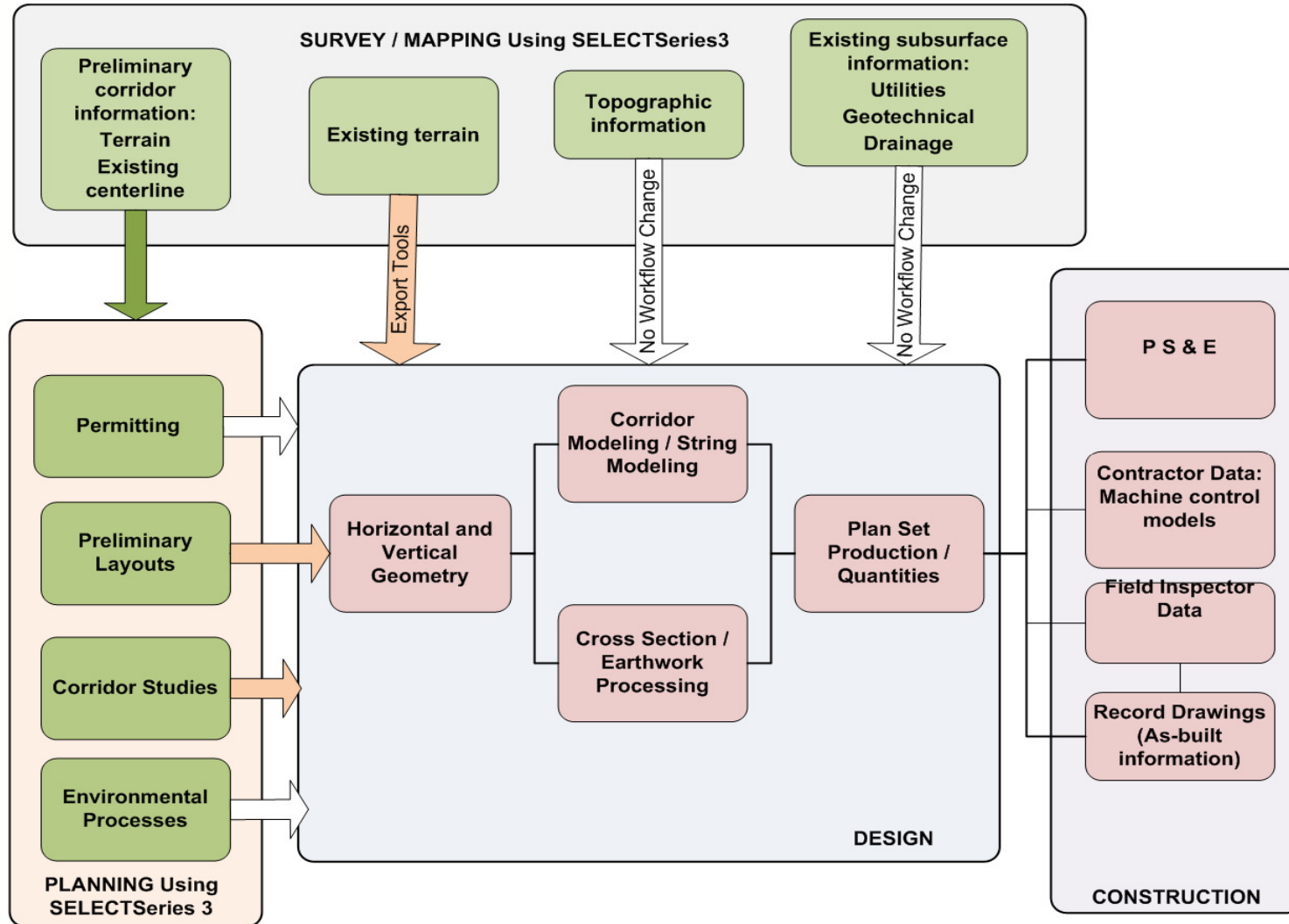
Deployment Options

1. Deploy enterprise-wide
2. Deploy by geographic location
3. Deploy by functional group
4. By pilot project, then expand to more projects
5. Do not deploy

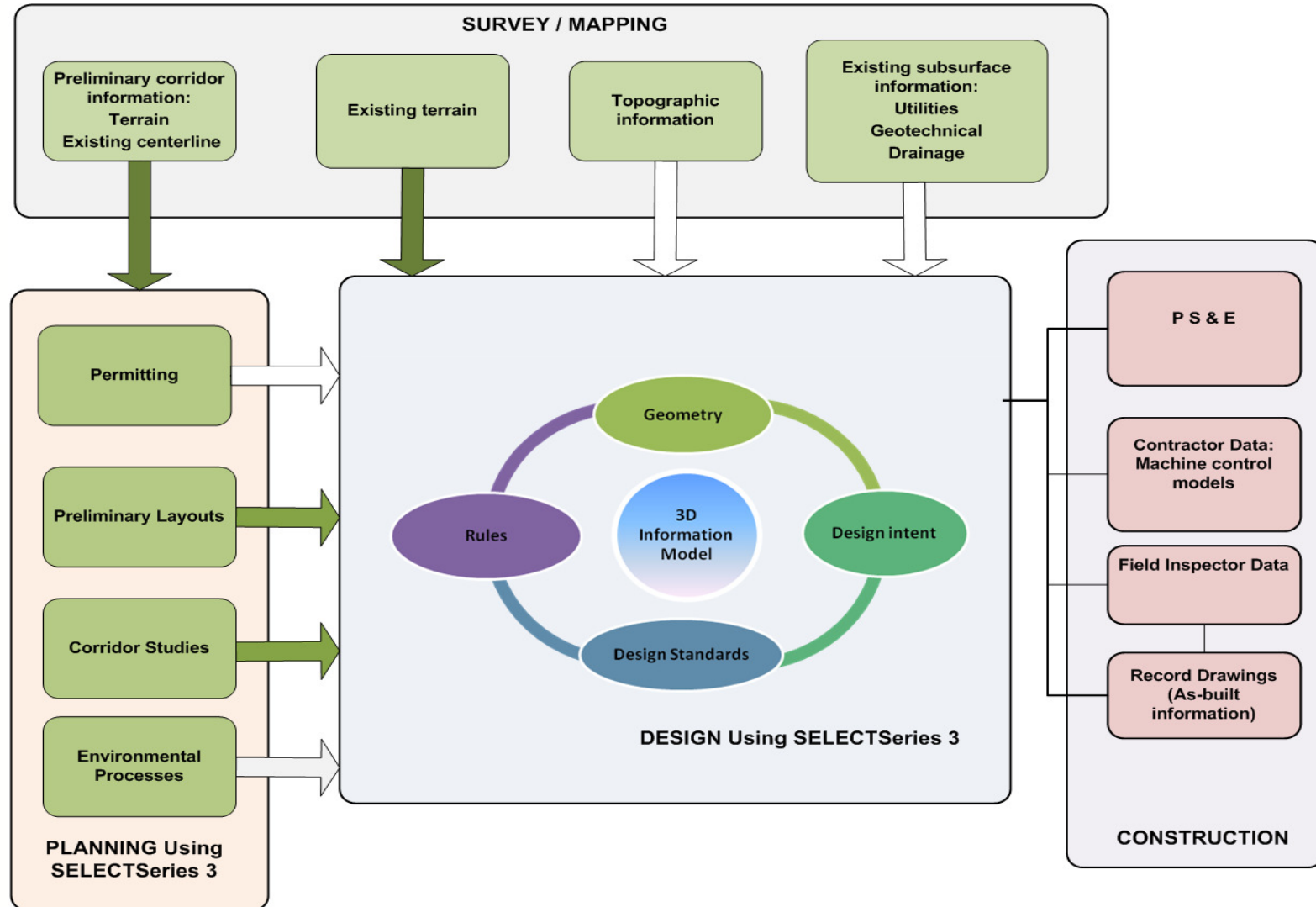
SELECTseries 3 – Survey / Mapping



SELECTseries 3 – Planning



SELECTseries 3 - Design



Deploy By Pilot Project

- All of SELECTseries 2 tools are within SELECTseries 3 install except:
 - Power InRoads – site design
 - Roadway Designer
- Links / Import tools
 - Import Geometry
 - Import Digital Terrain Model
 - LandXML
- Links / Export tools
 - Export to Native - plan profile sheets
 - Draw cross section tools produce native sections
- Utilizing all plans production tools from SELECTseries 2

Advance Preparation – Set-up

- MicroStation
- Civil
- Engineering

Advance Preparation - MicroStation

- Review current MicroStation resources – are they in DGNLibs or can they go there? How are XIN, DDBs and PSS affected?
- Development of MicroStation element templates (such as for terrain models)
- Review CAD standards – changes due to Corridor Modeling, geometry, use of reference files
- Do you want to create an enterprise-wide or functional group customized task navigator?

Advance Preparation - Civil

- Review Design File Settings within Seed Files – Determine default settings for Civil Formatting
- Review Workspace Preferences – View Options > Civil
- Review new configuration variables
- Review new workflows and determine which areas may be moved forward to new methods.
- Are there any customized workflows that need to be integrated?
- Review reports; determine defaults, deficiencies

Advance Preparation - Engineering

- Review horizontal and vertical Design Standards – validate local standards.
- Superelevation tables – do you have your standards currently set up and in production?

Design Standards - Review horizontal and vertical

Design Standards – validate local standards

Element Information

Selection
50 kph

General

Description 50 kph

Extended

Vertical Design Standard

Minimum Slope	0.50%
Maximum Slope	6.00%
Maximum Difference in Grade	4.00%
Vertical Table Type	K Table
Table	

Element Information

Selection
50 kph

General

Description 50 kph

Extended

Vertical Design Standard

Vertical Design Standard 50 kph

Design Values

Speed	50
Default Radius	255.00
Minimum Radius	180.00
Maximum Radius	520.00
Transition Type	Equation
Centripetal Acceleration	0.3
Include Transitions	True
Check Tangency	True

Arcs

Tangents

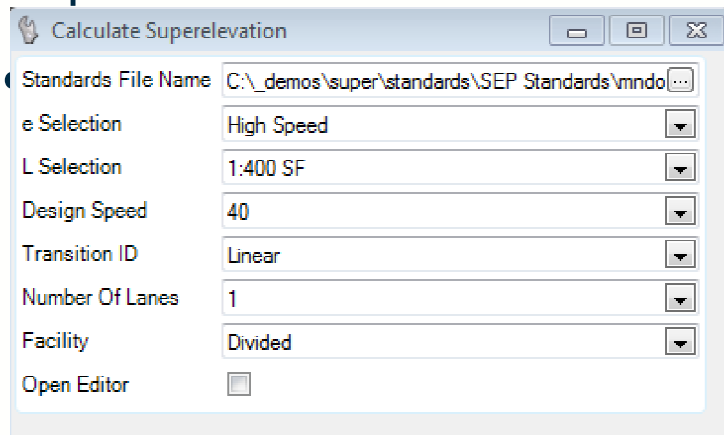
Vertical table Editor

	Speed	Sag Minimum	Sag Default	Crest Minimum	Crest Default
▶	50	9.00	9.00	6.50	10.00
	60	13.00	13.00	10.00	17.00
	70	20.00	20.00	17.00	30.00
	85	20.00	20.00	30.00	55.00
	100	26.00	26.00	55.00	100.00
	120	37.00	37.00	100.00	182.00

Row: 1 of 6

Superelevation Standards

- SEP and SRL are supported.
- Superelevation tables – do you have your standards currently set up and in production?



Calculate Superelevation

Standards File Name: C:_demos\super\standards\SEP Standards\mndo...

e Selection: High Speed

L Selection: 1:400 SF

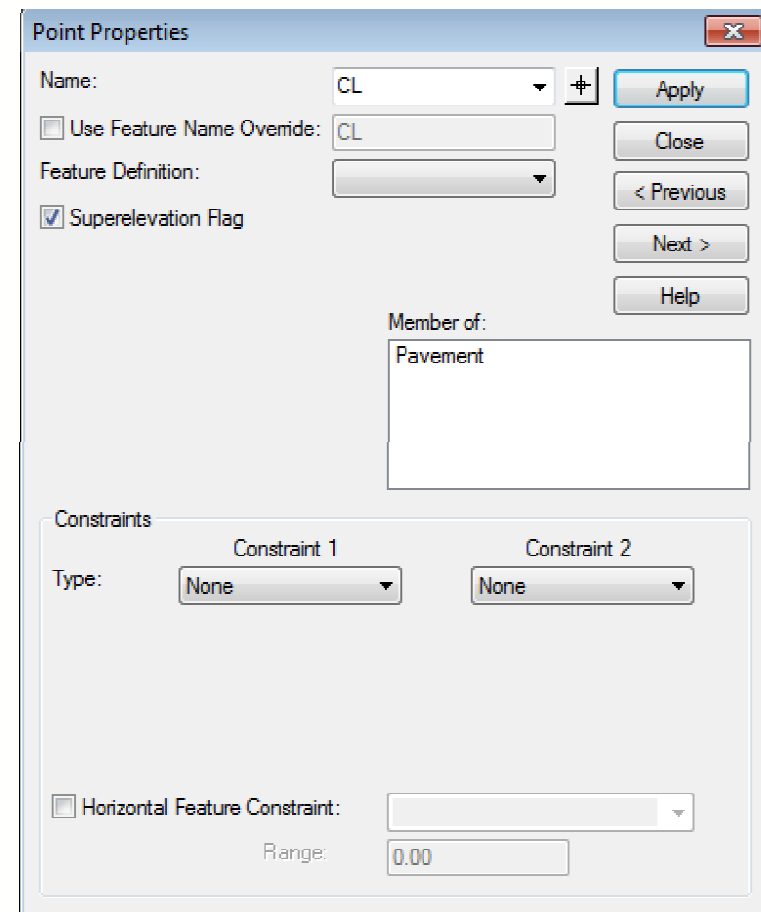
Design Speed: 40

Transition ID: Linear

Number Of Lanes: 1

Facility: Divided

Open Editor: ☐



Point Properties

Name: CL

☐ Use Feature Name Override: CL

Feature Definition:

☒ Superelevation Flag

Member of: Pavement

Constraints

Type: Constraint 1: None, Constraint 2: None

☐ Horizontal Feature Constraint: Range: 0.00

Buttons: Apply, Close, < Previous, Next >, Help

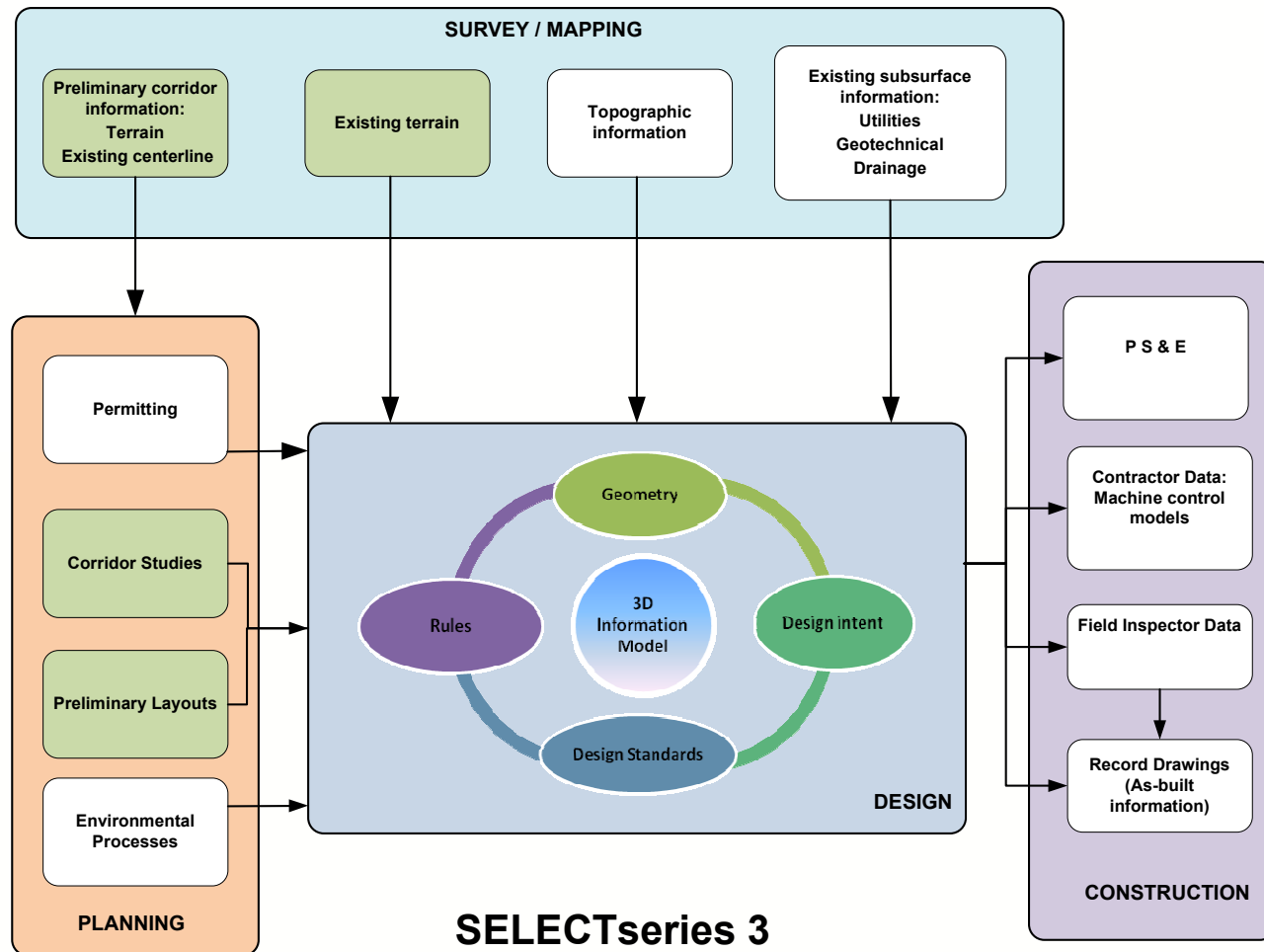
Advance Training

- Civil AccuDraw
- Customized Task Navigation
- Element Templates, Features, and Feature Definitions
- Manipulation models and views
- Element Info

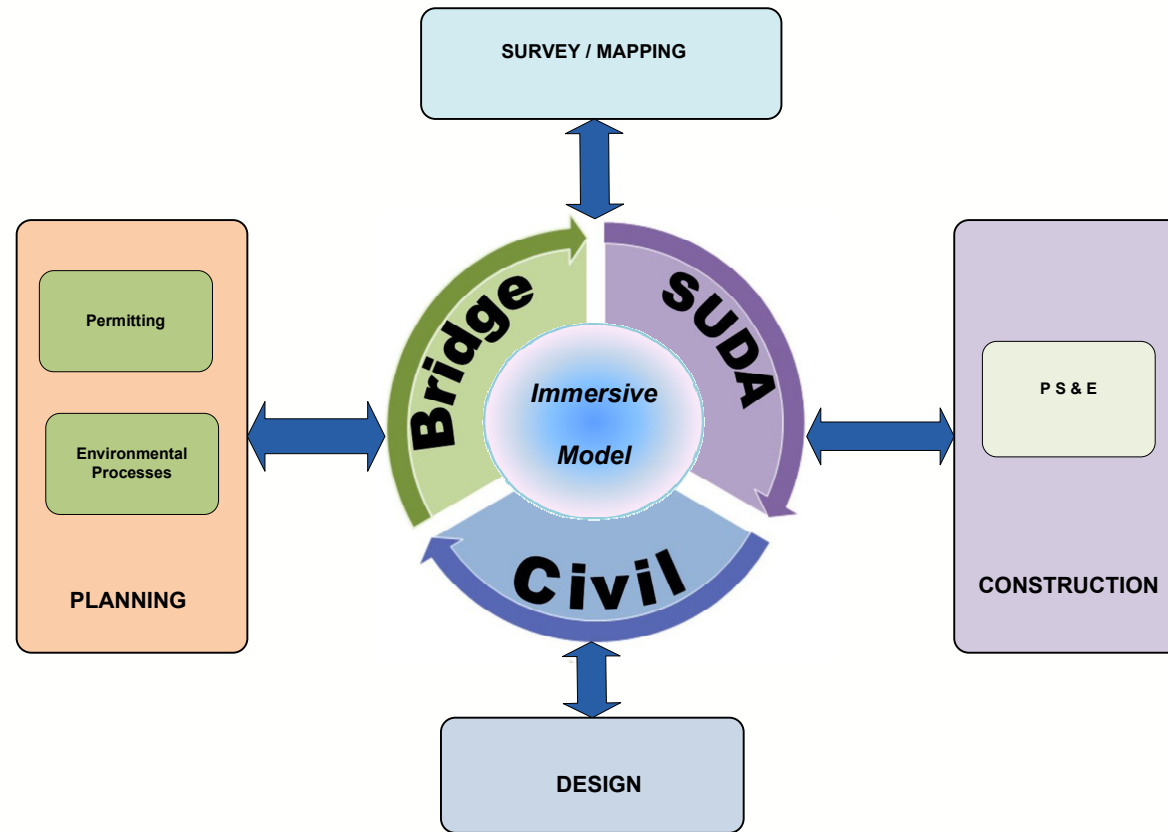
Installation

- SELECTSERIES 2 TO SELECTSERIES 3 OR BOTH?
 - Set-up / testing - can be loaded on same workstation
 - Production – use SELECTseries 3 as it has all tools
- New Patch technology
 - After initial installation, updates and service packs will be loaded via “patch” technology (much smaller)

SELECTseries 3 - 3D INFORMATION MODEL



BEYOND SELECTSERIES 3 - IMMERSIVE MODEL



EVOLUTION OF CIVIL MODEL TO INFORMATION MOBILITY

